

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
From: Pete Rossi <wa3nna@resuba.com>
Subject: [8906] 10 meters was open
Message-ID: <199605232228.SAA08137@resuba.com>

10 was open this morning. I have 29.600 (FM calling channel) programmed into my scanner and while I was getting ready to leave, I heard a "4" talking to a "1" Could not hear the "1" The "4" was fading in and out but was good copy most of the time. This was 8:30 AM Thursday from SE PA.

Pete Rossi - WA3NNA
wa3nna@resuba.com

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
From: N9DD@aol.com
Subject: [8867] 1st 40-9er QSO
Message-ID: <960523081104_307938796@emout07.mail.aol.com>

I just finished the first QSO with the 40-9er rig I bought at Dayton. I built most of it on Tuesday night and tonight I finished it up, clip-leaded everything together (keyer, battery, etc.) and started listening on 7.040. I had been listening for a while and had tried a few calls with no luck when I heard a nice loud CQ from K8BRX - Dave in Traverse City, MI. I gave him a call and he came right back to me.

Believe it or not, the QSO was Dave's first with a new rig - a Spider SP10 transceiver! He was loud here. I gave him an RST 599 but only got a 469 in return. Still, we carried on a nice QSO for about a half hour. K8BRX is waiting for his 40-9er kit to arrive any day so I'm looking forward to a possible 2-way 40-9er QSO with Dave soon. QRP sure is fun...

I hope to get my new rig into an enclosure soon. I have a neat little box that held CB mic compressor at one time that I want to use for the rig. The box has a pair of slide pots on the front. I plan on using a varacter to tune the rig and will use one of the slide pots for a control. I did this successfully with a Neophyte rig and think it should look pretty nice.

As I finished my 1st 40-9er QSO, I looked over some of the other rigs on the bench - a Norcal 40A, a Pixie-2, a couple NN1G rigs, and I couldn't help but think how much I owe Doug Hendricks, Jim Cates, Wayne Burdick, Dave Benson and a host of other QRP kit designers and providers for all the fun I've been having with QRP the last few years. Thanks guys!

I've already finished the Atomic Keyer (AK-1) I just bought at Dayton as well

as the 40-9er rig. Next is the EMTech 80-20 rig for 80 meters that I bought there. Maybe I need to slow down and pace myself - I'm running out of projects fast! :-)

72,

Tom N9DD

South Bend, IN Member of: QRP-ARCI, CQC, G-QRP, MI-QRP, NorCal.

N9DD TMPS 1996 Qs=020 States=13 Confirmed=02 DX=02
CA CO IN MA MD MN NH NJ NM NY OK PA TX

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
From: Ron Giuntini <rong@slip.net>
Subject: [8910] 40 9er
Message-ID: <E0uMkL7-0001MH-00@fox>

How can I get one of these kits? Are they still in development? KB6GK
KB6GK Ron

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [8898] 40-9er Experiment
Message-ID: <199605231927.TAA05658@chuck.dallas.sgi.com>

Gang,

On the way to work I thought of something. I have driven the route so often I'm on automatic. :-)

Someone take a 40-9er and a WM-1 and a 50 ohm non-reactive dummy load. Get some new batteries in everything so that we get good numbers.

Now measure and plot the output, or make up a table and post it at regular intervals, for the 40-9er vs. frequency. I want to demonstrate something. I'll explain the physics

the first of next week as soon as I get back to a computer.

Off to Mt View for another week of fun in the sun. :-)
Well I can dream can't I?

Wow, CA, OH, TX, and CA in two weeks. The cabin crews
know me by name. :-)

dit dit
--

Chuck Adams (K5FO CP-60) adams@sgi.com
K5FO TMPS 1996 Qs=020 States=15 Confirmed=07 DX=01
AZ CA CO FL IL IN MI OK OR SD TN TX UT WI WY

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
From: wa5whn@ix.netcom.com (Jay Miller)
Subject: [8871] 6 & 10 meters Sporadic E/Humorous caption
Message-ID: <199605231248.FAA18599@dfw-ix10.ix.netcom.com>

Dear Fellow QRP Enthusists,

<http://www.sel.bldrdoc.gov/forecast.html>

I had worked 7 Dallas/Ft. Worth Stations (6 & 10 meters FM) yesterday,
enroute home. I had repeatedly checked 28.060 MHz. Nothing. That one
Sporadic E cloud, was very stable, between New Mexico & Central Texas.
6 meters had sounded like 10. Where are all of these new Tech class
licensees ? I will ask that question on the VHF Reflector.

Separate Subject: <http://www.zynet.com/~johnb/jay0.html> (Use
Netscape). The very last photo, one Mr. Pat Taber, from this list, had
suggested a very funny caption for the photo of AB5OU & KI6DS. Enjoy.
Thanks Pat, Doug & Tim.

72...Jay, WA5WHN, Albuquerque, NM
(Where it is really Dry, Hot & Windy)

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
From: dgf@netcom.com (David Feldman)
Subject: [8877] 9V NiMh Batteries seen @ Dayton
Message-ID: <199605231439.HAA24988@netcom20.netcom.com>

While at Dayton I saw someone selling 9.6V NiMh batteries - 9V transistor radio

style packaging - for \$10 each. They claimed 120 mAh. I thought the price was high so I didn't pick any up. They were labeled "made in germany" but didn't have a brand name.

Did anyone try one of these? Have any others been seen? Seems to me they would be a good alternative for 40-9er powering and other tiny QRP applications.

73 Dave WB0GAZ dgf@netcom.com

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
From: Joe Everhart <n2cx@voicenet.com>
Subject: [8915] ARRL Ant Book Gets Notice
Message-ID: <199605240234.WAA14163@mail.voicenet.com>

Gang,

This ain't quite QRP, but it is related since qrp'ers know better than most hams the value of good antennas.

I'm sure many of us know that Gary Breed, designer of the QRP rig sold by A&A is a ham and used to be the editor of the trade journal "RF Design." He frequently included radio amateurs in RF Design symposia and even sold ARRL and other books written by hams.

Now another trade journal, "Microwaves & RF," has given a plug to the ARRL Antenna Book. The May issue of the magazine has an article entitled "Wireless Applications Provide Focus for Antenna Companies." It's a leading-edge-technology article about antennas used in the latest PCS, cellular and satellite applications. At the end is an Editors Note touting the ARRL Antenna book as "a comprehensive single source for antenna information." Not bad!

Of course we knew all along how valuable the book is. I even used it as a supplement to the antenna course I taught at Martin Marietta. Now there's lots of engineers and techs who have it sitting within easy reach on their desks.

72/73,

Joe E., N2CX

work: jeverhart@cayman.vf.mmc.com
home: n2cx@voicenet.com

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
From: Tim English <dx@sun.tir.com>
Subject: [8864] cells
Message-ID: <2.2.32.19960523115613.00696d80@tir.com>

Still have a few 12vdc 6 and 7ah gel cells available. Dimensions are 6" x 3 3/4" x 2 1/2" with 1/4" spade terminals on the top. Used but load tested good. Removed from burglar alarm systems.

Will also take standing orders so if I run out you'll be on the list for the next batch that I get in.

--
Tim

Amateur Radio Station: WB80GM (since 1972)
Email: dx@tir.com

"Sometimes imagination is better than knowledge"

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
From: rflight@VNET.IBM.COM
Subject: [8872] D-97 Contest Warning! Warning! (and on the lengthy side).
Message-ID: <199605231302.JAA59460@nss2.CC.Lehigh.EDU>

Isn't it curious how all great ideas are viewed by some as a threat.... Come on guys... read the note. This really is a "Win/Win" proposal. Take a step back and ponder the forest for a moment. Ham radio is far far too diverse even for those of us who can't seem to get enough of that element. If you have an opposing opinion to any proposal, you should first consider whether or not your reaction is a personal one.

Consider for a moment that QRP-L is monitored by a cast of thousands... perhaps millions... yeah right!!! Now also consider that there are only 2 on this list that have any interest in participating in a design contest. These are purposefully fictitious numbers which I offer as a means to "amplify" my point...

For any competition, or contest, 2 (or more) must participate. "ALL" competitors need to do their level best to "WIN". That is, after all, their motivation. That's right... they're eccentric type "A" geeks, and place more value on a piece of wallpaper and 4 days of glory (i.e. FDIIM at Dayton).

So here we have two of these turkeys going head to head for the November

Pole position, taking their que's from QRP-L's "Gee... I wish I had a..." daydreamers, racing the clock, investing every waking (and some of their sleeping...) moment analyzing, breadboarding, testing, re-designing, comparing, and all those wonderful things that those of us in the business get paid to do for a living.

Meanwhile the several million remaining readers on the list Yawn, read with mild curiosity, maybe add a comment or two to the dialog that clears a cobweb loose that spawns refinements to the competitor's pet designs.

In parallel, the several hundred on the list interested in the "building" competition, sort through each thread, and mull over which one (perhaps both, or all) of the projects they want to see become the next FDIM candidates.

If you don't want to participate in the "design" contest... don't. If you would rather see a neat high quality "building" project instead... you would be wise to ENCOURAGE rather than discourage the artisans on this list. I'm sure you would all like to see a building project that was of as high a quality as can be squeezed out of 25 bucks, and a "designers" competition is a real cheap and easy way to achieve that goal.

So who wins and why?

The designers among us... Ah! a design competition... Awesome!

The builders among us... Ah! a neat inexpensive (but not cheap), useful, and fun weekend project, that's just what we've been needing, and debating... Awesome!

The competitors among us.. What were those rules again?... Awesome!

The neophytes among us... Wow! A sandbox for learning about all this QRP and ham radio stuff... One stop shopping on my internet "Surfboard".... Awesome!

The Elmers among us... Wow! These are some neat little projects for us to offer up for our next club training exercise.... Awesome!

The QRPer's among us.... Awesome!!!!!!!!!!!!!!!!!!!!!!!!!!!!

The Passers by..... This is a really diverse and interesting mail list free of flame throwing, and filled with some real "meat"... This one needs to be on the high end of my hotlist.... Awesome!

Does any body lose?

The flame-throwers among us..... Borrrrrrrrrrring!!!!

Let the games begin... If you don't want to compete... cheer. Tell those guy's what you want to see. Tell them what you like about what they are doing. Words like "I want to build on of those whether it wins or not!" are the motivators for these guys.

REMEMBER.... the cost of engineering is recovered in the sales price of the commodities we purchase. This is our chance to get the engineering for free, which reduces the cost of the end products to simply the cost of the materials. It just doesn't get any better than that. How can anybody feel compelled to discourage such a movement.

The engineering team for the 40-9'er is large when you consider all of the readers on this list who have contributed to its evolution. It is indeed a work of art (still under construction I might add) that is destined to have a secure foothold on it's place in the history of radio. It's name will fall from glory as it takes on the ALTOIDS moniker, but the activity and energy it has created across the globe will not soon be forgotten.

This is one of the best (perhaps the best) lists on the Internet. It is followed by some real heavyweights in the business, which collectively has merit far beyond the limits of amateur radio. I will not be at all surprised to see new invention evolve from just this sort of brainstorming.

Over!

30, 72, 73, 88, de N3GO

Gary E. O'Neil
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IBM Corp. M/S A62A/205
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//// / * / / / //// //// * //// //// / * //// //// ////

Only I am capable of offering such absurdities, and must assume all credit for my opinions and suggestions. They are mine and mine alone. My employer will graciously disavow any knowledge of my existence and laugh heartily at the mere suggestion of such a preposterous notion.

//// / * / / / //// //// * //// //// / * //// //// ////

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
From: klh@cbqaa.cb.att.com
Subject: [8901] Design contest
Message-ID: <199605231949.0AA21203@ihig2.att.att.com>

That sounds GREAT. I hope to compete with Paul Harden and others. The 40-9er has been fun and inspiring. These projects have really hacked away at the cobwebs in my head. My 40-9er and Dave Benson SWL-30 may never be done, but they're working. It's just that another modification gets tried. I'm always "tuning in" to the QRP-L to find out who and how that last db of gain was captured. Thanks Doug, Paul, Ori, Dave, Wayne, and many, many more.

72,
Kaye KD8EK Lancaster,OH

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
From: CamQRP@aol.com
Subject: [8868] Hootowl
Message-ID: <960523082013_119405546@emout15.mail.aol.com>

Gang -

The Hootowl Sprint happens this weekend. It's a four hour sprint, running from 8 PM to Midnite, Local Time. That means, late Sunday night wherever you are. Hope I can stay up late enough to run into some of you --

72/73,

Cam N6GA

Date/Time:
May 26, 1996; 8:00PM to 12:00PM Local Time
Exchange:
Member - RST, State/Province/Country, ARCI Number
Non-Member - RST, State/Province/Country, Power Out
QSO Points:
Member = 5 Points
Non-Member, Different Continent = 4 Points
Non-Member, Same Continent = 2 Points
Multiplier:
SPC (State/Province/Country) total for all bands.
The same station may be worked on more than one band for QSO points and SPC credit.

Power Multiplier:

0 - 250 MW = X 15; 250 MW - 1 Watt = X 10

1 W - 5 W = X 7; Over 5 W = X

1.

Suggested Frequencies:

	GENERAL	NOVICE
160 Meters	1810 KHz	
80 Meters	3560 KHz	3710 KHz
40 Meters	7040 KHz	7110 KHz
20 Meter	14060 KHz	
15 Meters	21060 KHz	21110 KHz
10 Meters	28060 KHz	28110 KHz
6 Meters	50060 KHz	

Score:

Points (total for all bands) X SPCs (total for all bands) X Power
Multiplier .

Entry may be an All-Band, Single Band, Hi-Band (20M, 15M, 10M and 6M) or
Lo-Band

All entries must be received within 30 days of the contest date. Late
entries will be counted as check logs. Members and non-members indicate their
output power for each band. The highest power used will determine the power
multiplier. Output power is considered as 1/2 of input power.

Send entries via E-Mail to CamQRP@cyberg8t.com, or by mail to:

Cam Hartford, N6GA
1959 Bridgeport Ave.
Claremont, CA 91711

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996

From: N5EM@aol.com

Subject: [8895] HouRP Field Day

Message-ID: <960523144208_202685741@emout09.mail.aol.com>

Gang

N5EM is looking for a few good ops for field day. We are thinking of what is
possible and doable now. Plans for FD just fell through with the other group
so I am entertaining doing it with a few fun-loving QRPers. Need about 2 to
4, preferably good CW ops with reasonable social skills (is that like mission
impossible?) :-)

We are thinking west of Houston within 100 miles. If there is enough
support, we'll erect the Veas. Otherwise, maybe just 300 to 400 ft.
longwire. Got the QRP Plus as the primary station (TS-130V as backup or as a
Technician/Novice station).

What say? Oh, Ted suggested the monikor, HouRP, pronounced as was thoughtfully explained to me, "hugh-are-pee". If you like it, thank Ted. If you hate it, tell Ted and make a better suggestion.

Think quick. There isn't much time.

72

Ed, N5EM

ps - When you folks want to meet again? July, August, never?

Ed

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
From: ali@ns2.emirates.net.ae (M M Ali)
Subject: [8913] HT-1000 Motorola Radios
Message-ID: <9605240106.AB23858@ns2.emirates.net.ae>

Hello,

ATTN: HT-1000 users.

Iam having a problem. The pins on the programming cable which go to the radio are breaking off easily. In the past six months I had to order three programming cables!

I wonder if others have had similar problems and how this was solved.

Looking for some responses.

M M Ali

Pls respond to me privately.

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
From: Mark E Gustoff <Mark_E_Gustoff@ccm.ch.intel.com>
Subject: [8892] IARU FASC (Elim. of CW req. completely)

----- Forwarded with Changes -----

From: Mark E Gustoff at AZCCM35
From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
From: svein@eci1.ucsb.edu (Svein Vetti)
Subject: [8905] Low power/volt LNA
Message-ID: <9605232215.AA24681@rose.ucsb.edu>

Hi, I measured my LNA yesterday on a noise-meter and the result was rather depressing: 5-6 db with 8-9 db of gain.

The device I am using is a MRF 901. I guessed from the data specs that it was not going to perform well at low power, because all the noise data was given for high current (5-15 mA) and high Vce (5-10). Because my receiver is a battery-powered one with 3*1.5 V available there is now way I can even get close to the optimize bias condition. I also had to make a estimate over the optimum noise impedance. My LNA is drawing about 1.5 mA and is matched to 50 - j25 @ 148 Mhz.

There must be a better solution for low-power LNA with a 4.5 V power supply. Fet's might be a solution, but the high Vp and low gm (compared to a BJT) might be a problem.

Any suggestions ?

-Svein Vetti

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
From: "Jim Markle" <jim_markle@corp.disney.com>
Subject: [8912] Miniature Morse Keys.....
Message-ID: <9604238328.AA832899402@ccunix1.disney.com>

Several folks have requested info on the small straight key I mentioned in my recent "portable operating" post. I would have responded sooner but I have been looking for a recent ad I saw somewhere listing an email address. Can't find it. Oh well.

The following was current when I ordered mine several years ago and to the best of my knowledge, it's still current. (Except maybe the price...)

Contact: Marc, ZS6HZ, Lima Electronics, PO Box 707, Bergvlei, 2012, Republic of South Africa
phone: 27-11-444-0444 fax:27-11-444-0459

Price when I got mine was \$25 plus \$3 shipping. (It's probably just too simple to say \$28 delivered.....) VISA or MC or bank draft.

I'll scan a picture of mine and send it to ARS and/or NorCal so you can access the web page and see what it looks like. Maybe next week.

It's really a neat little key.

All the usual disclaimers apply. Period. I have NO connection with this guy. But I can be influenced. Especially if he needs my address so he can send me a HUGE commission check for the multitude of requests I know this will generate. If I receive a check, forget the part about disclaimers. I'll gladly suck-up and say darn near anything about the key. Especially if there are big numbers on the check. Quality of the key will no longer be a factor. The right numbers might even get me to tell how this key actually CREATES propagation. Well, I'll keep my eye on the mailbox.....

kb5ob Van Nuys, CA

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
From: Ray Johnston <rayj@netrunner.net>
Subject: [8911] Need Info on Small Wonder Labs
Message-ID: <199605240054.UAA03762@wahoo.netrunner.net>

Does anyone have telephone and/or address information on a company called Small Wonder Labs? Also, if you have any comments on a White mountain 20 meter rig by this company, I'd appreciate hearing about it. Thanks...

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
From: "Bob White" <Bob_White@CCMAIL.aerosys.loral.com>
Subject: [8882] QRP Net Schedule
Message-ID: <9604238328.AA832878626@CCMAIL.AEROSYS.LORAL.COM>

Danny, K3TKS, has asked me to keep a current copy of the QRP Net Schedule up on the INET.

A current copy of the QRP Net Schedule can be seen on the W03B
Homepage at [HTTP://www.geocities.com/SiliconValley/5582](http://www.geocities.com/SiliconValley/5582)

Anyone who wishes to display a copy of the QRP Net Schedule on their
homepage can do so by referencing my master copy which is located at

[HTTP://www.geocities.com/SiliconValley/5582/qrpnet.txt/](http://www.geocities.com/SiliconValley/5582/qrpnet.txt/)

Danny is still maintaining the master copy of the QRP Net Schedule, so
please send all changes to him at k3tks@u1.abs.net

As Danny provides me with updated copies of the Net Schedule I will
replace the previous one at the above address. By referencing my
master copy you can ensure that your copy reflects all updates.

Dayton: "And a fun time was had by all!"

72,

Bob White W03B WASTP 43.28W

W03B 400mW TMPS 1996 Qs=018 States=14 Confirmed=00 DX=01
AL, CA, CO, CT, FL, IA, IN, KS, LA, MD, NH, NY, TN, TX
Poland

From owner-qrp-l@Lehigh.EDU Thu May 23 22:33:51 1996
From: Dale Anderson <dalea@artemis.fc.hp.com>
Subject: [8908] QRPp watt meter?
Message-ID: <199605232306.AA184122783@artemis.fc.hp.com>

Hi folks,

Lately I've been having a blast working both coasts at
the QRPp (between 10mw-500mw or so) level. My only
problem is that my RF pwr meter's lowest scale is the
5w range making it difficult to determine just what
my output pwr level is. The needle barely lifts at
what I'm "guessing" is about 10mW. So, any recommendations
on a good meter for measuring accurately at this level?

Thanks es 72/73!

-Dale, KB0VCC / QRP-L#91 / CQC#251

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
From: "Robert J. Gobrick" <rgobrick@nfld.com>
Subject: [8914] QST - QRP - FDIM96 - QRT - QST - QRP - FDIM96 - QRT
Message-ID: <2.2.32.19960523002519.0076e2bc@public.compuser.nf.ca>

Dear QRPers and Others Not So Fortunate,

I've finally recovered from PDRS (Post Dayton Withdrawal Syndrome - something Dr. Rick VE6GK may know about..) Even though I spent every waking hour at "Four Days in May (c)" trying to meet and chat with fellow QRPers I come away feeling like I didn't even get enough time to say hello to folks. Maybe next year things will change..

NEXT YEAR - yes for those interested the benevolent sponsor for FDIM - the one and only QRP Amateur Radio Club International has extended a hearty thanks to all who worked on FDIM and the BOD voted unanimously to sponsor FDIM for 1997. Now let's see here - that's May 15, 16,17 and 18 1997 per the Hamvention guide - "FDIM(c)" 1997.

So, before 1997 rolls around I want to extend some THANKS to a number of folks who helped make "Four Days in May" the QRP Event of 1996.

THANKS TO YOU ALL:

First and Foremost - THANKS to all 100+ of you who attended. The FDIM committee: Paulette Quick N9OHU - registration chairperson, Bruce Muscolino W6TOY - technical papers chairperson, Preston Douglas WJ2V QRP Vendor coordinator and myself Bob Gobrick VO1DRB/WA6ERB really appreciated the excellent turn-out for this first ever event. Many of you took a chance and gambled away a day of work (your lost salary could have paid for a new SWL White Mountain SSB rig) to come to an event that you had no idea of the outcome. We appreciate your faith in us that this event would "go".

As many of you may have remembered in the QRP Symposium opening ceremonies the FDIM gang wanted to make this event one of the best "elmering" sessions you've ever attended. I was happy to see that you all took this to heart. I received an email from Mike AA8EB, a new QRPer, and he was thrilled to have learned so much and to have met so many great hams at the QRP Symposium and the QRP ARCI hospitality nights that followed. It seemed like everyone was being an "Elmer" - Great going guys and gals. During the upcoming year take a little time and spread a little of the FDIM word to others in your local ham and QRP clubs - it works. THANKS PAULETTE and THANKS TO YOU ALL.

THANKS TO THE PRESENTERS:

Wow - what can I say. Bruce Muscolino W6TOY, the FDIM Technical Papers Chairperson, really rounded up a top notch group of presenters. So much so that I keep seeing their names wherever I read (like L.B. in QEX, NEQRP 72 newsletter, Ed, Rev. George, Bill, Kathy and Rich, Danny , Bob (good name), Dit Dit, etc). I would appreciate it if you would all send our presenters a big THANK YOU over the email etc when you see their names pop up. You have to remember it was these presenters that made FDIM such a great event - it's their time and dedication that made the difference. And as an aside I noticed that Mouser has a fairly inexpensive "solder pot" for tinning those toroid leads - who says that Kathy Szakonyi knows all the kit building secrets - it was during her talk that this secret slipped out - heard first at FDIM.

So what names should you look out for:

L.B. Cebik W4RNL -- Short Yagi Antennas
Walt Thomas WA4KAC -- An Attic Loop Antenna
Ed Manuel N5EM -- Vee Beams
George Dobbs G3RJV -- Homebrewing Options
Bill Kelsey N8ET -- Direct Conversion Receivers
Dick Szakonyi WA3ZOW -- Receiver Design
Kathy Szakonyi N3SAD -- Building Hi-tech Kits
Bob White W03B -- Milliwattting
Chuck Adams K5FO -- The 30 meter Propagation Study
Danny Gingell K3TKS -- QRP nets
Bruce Muscolino W6TOY/3 -- Helically wound HF Antennas

If you missed hearing these folks give their presentations - don't despair. Bruce has additional copies of the FDIM QRP Symposium Proceedings for sale. The price is \$20.00 including postage -- the book is about 125 pages, 3-ring bound and includes the binder. His mailing address is:
Bruce Muscolino; PO Box 9333; Silver Spring, MD 20916-9333. Please make checks or money orders payable to Bruce Muscolino. THANKS BRUCE AND THANKS AUTHORS.

THANKS TO QRP ARCI:

I have to admit that Buck Switzer N8CQA the President of the QRP Amateur Radio Club International really took a gamble with us (so what if I mentioned that the FDIM gang would probably be down in the Bahamas in a coool air conditioned suite on May 16..). Here was this crazy committee spread all around North America trying to put together a QRP Symposium using the Internet and the QRP-L list as the "working media". Well I'm sure Buck and the QRP ARCI Board of Directors had a sigh of relief when it all came off. We felt it important early on that QRP ARCI be our sponsor since it is

the one organization that has common links with all QRPers around the world and strong links to all the regional QRP clubs in North America. We used the QRP ARCI name proudly in our event announcements. The good news is that the QRP ARCI has offered to be our sponsor again next year (will Buck ever learn...) and we have proudly accepted. THANKS QRP ARCI.

THANKS TO PAUL HARDEN, NA5N and RICHARD HIGH, W0HEP:

This first ever FDIM QRP Symposium was really special because of one little QRP Sized Book that was a part of every ones' registration package. That book - "The Electronic Data Book For Homebrewers and QRPers" by Paul Harden NA5N and the "QRP Yellow Pages" by Richard High W0HEP, is one heck of a book and as everyone who received one can attest - this book lived up to the pre-release hype (mine) of being the QRP BOOK OF THE CENTURY. This book is so valuable that everyone should have two copies - one safe in your bookshelf and the other to be lost buried under all the solder, wire and parts of your workbench (for those who have a copy check out the BACK cover of the book and explain why the banana was only half eaten).

FDIM want to especially thank Paul and Rich since they offered this book to the attendees at a cost below their costs. It was planned to be a break even deal but when the book tripled in size the cost went up for them but they graciously said no increase to FDIM attendees. So send a big thanks to Paul and Rich and while you're at it order that second copy just in case you loose yours on the work bench. We would also like to thank the Northern California QRP Club and the Colorado QRP Club for sponsoring a special book signing session with Paul and a great qrp rig design tutorial session on Thursday evening. THANKS PAUL AND RICH.

THANKS TO OUR LUNCHEON SPONSORS:

Thanks to Dr. Rick Zabrodski VE6GK for his "healthy" luncheon talk on how to prevent "inhaling" solder fumes (and other substances) and AIDS (Amateur Induced Divorce Syndrome). As will become a tradition for years to come I would like to thank our luncheon prize sponsors for the books that were donated. Dick Pascoe's G0BPS new book "Introducing QRP" (can be purchased from Kanga US kanga@brutus.bright.net) and a book by recently inducted QRP ARCI Hall of Famer C.F. Rockey W9SCH on Regen Receivers donated by the Michigan QRP Club where gracious gifts that will be with the lucky QRPers for a lifetime. By the way, Lowell Corbin KD8FR donated a brand new copy of "The Joy of QRPing" at the Friday QRP banquet - lucky he did it there since if THAT book even got near me at the FDIM luncheon I'd make sure it would disappear real quick. By the way I will take a shameless bribe of a used copy of the "The Joy of QRPing" any time. THANKS GANG FOR MAKING A GREAT QRP LUNCHEON.

THANKS TO OUR QRPPAL:

A very special thanks to Bruce Milne WB2QAP (past QRP ARCI BOD) and his gracious donation of a new "freeware" software release especially for FDIM. Each participant received a floppy disk copy of this great little "QRP Resource" and QRP Contest Logger program. We'd appreciate it if you all would drop Bruce a note (bmilne@vivanet.com) thanking him for all his work (I guess it is possible to be productive when you spend the winters down in Florida away from the dreaded East Coast snow storms..) The New Jersey QRP Club WWW Homepage (<http://www.ges.com/~marmor/>) has the software available for download. I'd recommend the regional QRP clubs getting a copy of Bruce's Amipro file for making a real nice floppy disk label and distributing the QRPPAL software to all your members. THANKS QRPPAL BRUCE.

THANKS TO OUR VENDOR PARTICIPANTS:

This was the first year that FDIM and the QRP ARCI sponsored a semi-formal vendor evening and Preston Douglas WJ2V did a bang up job designing special vendor welcome mats and badges. 15 of the top QRP vendors showed up and more will be there next year - this really turned out to be a nice event and folks got to see what new QRP goodies were in the works. It was a real special treat for many of the new QRPers who attended since they get an opportunity to meet a very select group of fine vendors. We also appreciate the prizes that were donated by these vendors and a number of the regional QRP clubs for the great Friday QRP Banquet hosted by Pete Maier WK8S. THANKS PRESTON, PETE and QRP VENDORS.

THANKS TO ALL THE QRP NEWSLETTER and MAGAZINE EDITORS:

Thanks for all the folks who carried the FDIM QRP Symposium postings in their QRP newsletters and National and International ham magazines. We were happy the word was getting out. I would also like to give special thanks to Steve Hideg N8HSC who did a real nice FDIM spread on the QRP-L WWW Homepage.

THANKS TO THE BEN FRANKLIN QRP ANTENNA CLUB:

Special thanks to the North Georgia QRP Club, who defying all known rules and postulations of modern and ancient science (where was K5FO when you needed him) erected a full size GAP vertical and a 3 trillion foot kite antenna all for the benefit of the QRP operators in the QRP ARCI hospitality suite. I really was sad that I missed the sparks that started to fly from the passing storm - having done my Master's work at the Georgia Institute of Technology I was looking forward to seeing what a QRP version of the "rambling wreck" was like.

THANKS, THANKS, THANKS:

So that's a "wrap" for the first FDIM QRP Symposium. What's next - well 1997 FDIM with some new surprises. The NORCAL QRP Club have already booked

an evening tutorial by a famous NW Coast QRP ARCI Hall of Famer who had something to do with a "revolutionary" DC QRP rig - we'll keep you in suspense until next year on that. I'll venture to say that next year will be BIGGER and BETTERER. Can it be done?? Well Bruce W6TOY needs authors, Paulette needs registrants, Preston needs vendors and I need to "sell a dream". I will ask next year that you all please go out of your way to introduce yourself to the FDIM committee. I know personally I am "out going" when I'm behind a microphone (key) but fairly shy in crowds. Paulette is evaluating the questionnaires that you all kindly filled out and we will take your advice to make next years event even better. Count on it!

So Adieu for now, 73/72 and THANKS from the "FDIM(c)" Committee.

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-----
| Bob Gobrick - VO1DRB/WA6ERB/VE2DRB - Newfoundland, Canada |
| QRP'er Galore - ARCI, GQRP, NORCAL, NEQRP, COQRP, MIQRP, NWQRP |
| Internet:      rgobrick@nfld.com |
|                bgobrick@nl.net.nf.ca |
| Compuserve:   70466.1405@compuserve.com |
|-----
```

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
From: "Moore, Randy (William R)" <WRMoore@ingr.com>
Subject: [8893] RS DSP
Message-ID: <c=US%a=_%p=INTERGRAPH%1=HQ9960523131109YK004F00@hq15.pcmail.ingr.com>

Can anyone give me the RS part number for the \$40 DSP. My local stores never heard of it...

Tnx es 73,
Randy, KS4L

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
From: Ron Giuntini <rong@slip.net>
Subject: [8909] RS DSP Discussion
Message-ID: <E0uMk6C-0000vF-00@fox>

I have enjoyed the discussion of the DSP and was waiting for someone to post the part number, as it is not listed in the 1996 RS catalog. Anyway, after reading the part number on the list, thanks to a helpful posting, I found a store that had 4 with the first call. There are about 16 stores in my area so I was hopeful. So I will getly one after reading all the info here. It was very interesting and I must say that I have not been going anywhere else on the Internet since finding this group. I'll try my

DSP with my Sprint, my Ten Tec 1056, 1053 (when I build it), as well as my Ten Tec 4 band receiver, (which, honestly, arrived from the UPS man as I was typing this!!!). I also will get to try it with my Explorer II. Thanks to all for the tip. I am working to get a decent antenna up and I also must thank all who replied to my request for advise. Ron KB6GK
KB6GK Ron

From owner-qrp-l@Lehigh.EDU Thu May 23 22:33:51 1996
From: kd7s@valleynet.com (Bill Jones)
Subject: [8916] RS-DSP and QRP RTTY
Message-ID: <199605240326.UAA15365@valleynet.com>

I love to run two-way QRP RTTY and AMTOR using a homebrew interface and Hamcom software. Because Hamcom generates the AFSK tones, I have to use LSB on my Icom IC-728. That means the best I can do, selectivity-wise, is the width of the sideband filter. The Radio Shack DSP set in the MED or NARROW CW mode often makes the difference between a lost QSO and solid copy. So, if you don't like it on CW, try it on RTTY. It really makes a difference.

=====
Bill Jones - KD7S <><
QRP-L Member #85
Sanger, California
Reply to kd7s@valleynet.com
=====

From owner-qrp-l@Lehigh.EDU Thu May 23 22:33:51 1996
From: "Phil Sikes" <psikes@whidbey.net>
Subject: [8887] Seapac Convention
Message-ID: <199605231735.KAA10398@islander.whidbey.net>

Hello to the group. I have an extra ticket to the Seapac Convention that is being held at Seaside, Oregon. Includes a ticket to the dinner (prime rib) and prize tickets. Yours for the price of the dinner alone, \$20.00

If interested, email to me direct.

TNX es 72
Phil
Amateur Radio Station
KJ7NS

email: psikes@whidbey.net

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
From: KC7FYS@aol.com
Subject: [8879] Strange Occurrence
Message-ID: <960523112312_541208026@emout13.mail.aol.com>

Hello.

I have a question. Today I was on the air using my dipole, and I heard a tic-tic-tic sound in my MFJ 948 antenna tuner, so I popped off the cover to see what was happening. I found there was a spark jumping from the center shaft of the antenna selector rotary switch to the contact at the bottom of the circle. It was every .75 seconds or so--it sounded just like the electric fence used to sound on the farm in Iowa. Anyway, I cut the power to everything and it was still happening. So I detached the xcvr--no change; detached the dipole--no change; and then unplugged the 12V dc lamp power--no change. Finally I unscrewed the vertical antenna's pl-259 and I got a heart stopping shock! Of course, then it started sparking from the center conductor to the collar until I attached the center pin to a ground wire I had handy. There was a storm brewing and it was starting to rain. Anybody that can explain this? I just tossed the cable out the window because I didn't know what else to do. What happened?

Please email me directly, because I don't download the list anymore. (It costs too much in Japan!)

Jonathan
7j1aw1/kc7fys

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
From: bmitchel@kodak.com (Brad Mitchell)
Subject: [8897] Strange Occurrence
Message-ID: <9605231913.AA13778@iiatasun.cba.Kodak.COM>

Back when I was a boy, before the ham ticket, I had a nice sloped panel preselector, gmt clock, and power distribution system all for SWLing. Antenna was a LONG wire.

Before storms the neon lights started to immuminate momentarily so I decided to make that a permanent part of my recieving SWL antenna system.

Any time before a storm, it would start to discharge through the neon lamp. Once the rain started to come down at a rapid rate, it would no longer illuminate. I always kept that neon on there to protect the rig from discharge.

So before the rain, high impedance to ground, static build up had to go somewhere... after rain, it had another path. Learned something from all that crazy stuff I used to do.

73 Brad WB8YGG

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
From: "Tim Stabler" <TSTABLER@iunhaw1.iun.indiana.edu>
Subject: [8878] Stuff
Message-ID: <46C2F405EE@iunhaw1.iun.indiana.edu>

>From what I have read, I guess a good time was had by all at Dayton. Sorry I could not make it but things changed here radically. One change is that I am now writing a test bank for a textbook and I have to get it totally done within the next 10 weeks. I also have a high school institute I am running and two courses here at the university I am teaching.

The Olympic torch will be on campus June 3, if you are in the neighborhood.

Bruce---what is the name of the camera store in Indy and the gut there? I lost your note.

72 de WB9NLZ

Timothy A. Stabler, Ph.D.
Department of Biology
Indiana University Northwest
Gary, IN 46408

(219)980-6718
FAX: (219)980-7125

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
From: Mac T <SIXPENCE@worldnet.att.net>

Subject: [8902] Sunspot Cycle

Message-ID: <199605232026.UAA27691@mailhost.worldnet.att.net>

Forwarded w/permission of W6EL, Sheldon C. Shallon

>From: ad363@lafn.org (Sheldon Shallon)

>Date: Thu, 23 May 96 03:56:51 +0000

>This message is an attempt to correct some misinformation that
>has appeared on Internet and in print regarding the sunspot cycle
>minimum and sunspot cycle 23.

>

>The progress of a sunspot cycle is traditionally gauged in terms
>of smoothed sunspot numbers. The smoothed sunspot number for a
>given month is the average of the sunspot counts over a 13-month
>period centered on the month of interest. For example, the
>smoothed sunspot number for May 1996 is the average of the
>monthly average sunspot numbers from November 1995 through
>November 1996 (the data from the first and last months are
>weighted only half as much as the data from the intervening
>months). Thus, we will not know the smoothed sunspot number for
>May until the end of November.

>

>Around the time of the minimum between cycles, it is normal for
>spots from the new cycle to overlap (in time) spots from the old
>cycle. The new sunspot cycle is NOT considered to begin when the
>first spots from the new cycle are observed. Historically, the
>new cycle is considered to begin when the smoothed sunspot
>number, based on total observed spots independent of their cycle
>association, is at a minimum.

>

>Reports last year that the first spots from cycle 23 had been
>observed were erroneous. It is now believed that the first spot
>from cycle 23 was observed on May 10, 1996. Typically, the
>sunspot cycle minimum does not occur until at least twelve months
>following the appearance of the first spots of new cycle.
>Therefore, the minimum between cycles 22 and 23, and the official
>start of cycle 23, may not occur before May 1997. However,
>various internationally recognized organizations that stick their
>necks out with sunspot cycle predictions are predicting that
>cycle 23 will begin anywhere from May 1996 to December 1996. We
>will not know when the minimum actually occurs until the end of
>the 13-month averaging period, plus a few more months to observe
>that the smoothed sunspot number has begun to climb.

>

>The sunspot cycle minimum and the 10.7-cm solar flux cycle
>minimum occur nominally in the same month. There can be small
>differences because sunspot counts and solar flux are not
>perfectly correlated.

>de Shel, W6EL
>From: Sheldon C. Shallon Internet: ad363.lafn.org
> Los Angeles, CA USA
72 y Paz ..Grover KQ4AL <Sixpence@worldnet.att.net>

From owner-qrp-l@Lehigh.EDU Thu May 23 22:33:51 1996
From: KR4GL@aol.com
Subject: [8874] Ten Tec Survey
Message-ID: <960523091152_307967195@emout16.mail.aol.com>

This survey must be interesting form all the posting I see. I apparently missed it.

Would somebody post a summary of what's going on. Do we all need to send in one to help influence future product development?

72 de KR4GL
John Foote
QRP-L #507
ARS #51
ARCI #9149

From owner-qrp-l@Lehigh.EDU Thu May 23 22:33:51 1996
From: cjsterl@ix.netcom.com (Craig J. Sterling)
Subject: [8870] Update from AA3MD
Message-ID: <199605231233.FAA07271@dfw-ix3.ix.netcom.com>

Gang,

Sent off the Ten Tec survey form promptly. If anyone is in the position to have positive impact on low power operations, it's Ten Tec(IMHO).Great company, great products & maybe deep pockets. Just imagine, an OMNI VI ... in kit form! Just kidding!

(CHUCK)I'm slowly developing a fondness and real understanding of 30M. I'm spending just about all of my operating time on 30M. To date, and I will provide an accurate accounting months end, I've worked about 20 states and 10-15 different DX. What's nice is that every QSO is a "NEW ONE"!

Ya no, 40M is great, but 30 does seem better ... minus the conjection. With the band nearly always open to someplace (domestic or DX) QSO's

are relatively easy to obtain. For DXers, early morning, sunset & late nite offer a smorgersboard of DX & the operators for the most part are really gracious. I've had more instances when the QRO station reduces power and says "you mean my signal only went down to XXXX"! Cool!!!!

Gotta start thinking about Field Day! What about QRP from the south Lawn of the White House! or better yet from the top of the Washington Monument!

Caio & 72's
Craig, AA3MD
Washington, D.C.

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
From: lhalliday@creo.bc.ca
Subject: [8907] Re: 10 meters was open
Message-ID: <9604238328.AA832892147@mail.creo.bc.ca>

Yes... 'tis the season for Sporadic E.

I haven't been able to monitor 6 or 10 much lately, but while visiting family over the weekend in the B.C. interior I saw lots of pings on top of TV channels A2 and A3, with several different offsets.

When I was in high school I did lots of TV DXing by Sporadic E. One memorable day I saw KVIE, channel A6, from Sacramento - with evidence of signals on FM broadcast and some of the VHF high channels. The lower channels were jammed, but I managed to identify KUTV, channel A2 from Salt Lake City. Great fun!

VHF DX folks know that the Sporadic E MUF makes it to 70 MHz or so routinely (oh for a band there like U.K. folks have!), 100 MHz occasionally, and up to 145 MHz (i.e. 2 meters) a couple of times per year. When things are open signals are *loud* and you can work stations with microscopic amounts of power.

Laura Halliday VE7LDH	"C'est une femme mutine, assez
lhalliday@creo.bc.ca	elegante, grave et legere, ayant le
ve7ldh@amsat.org	sens du confort et du plaisir
Locator: CN89mg	en tout." - C. Deneuve

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
From: "Rafael Garcia (EA4RJ)" <tie@bitmailer.net>

Subject: [8885] Re: 5/22/96 Bicycle Mobile Contacts
Message-ID: <Pine.LNX.3.91.960523103942.245A-100000@ea4rj.ampr.org>

On Wed, 22 May 1996, Jim Kortge, NU8N wrote:

> Gang....for those that are interested, I went riding this
> evening after work and had a great time on 17 with the
> bicycle mobile equipment you saw at Dayton. (At least those
> that were at the ARCI banquet) Here's the rundown!

Jim,

For those we weren't at Dayton, would you be so kind to describe your bicycle-station setup? It sounds very interesting indeed, and I'm curious to know more about.

May I suppose you are making CW contacts when you are riding??!!

Regards,

Rafael,
Madrid (Spain)

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
From: Mike Cloud <cloudm@mhsgate.meth-mem.org>
Subject: [8873] RE: Dallas
Message-ID: <911DA43101172C16@mhsgate.meth-mem.org>

>0-SMTP-Envelope-From: <owner-qrp-1@Lehigh.EDU>

>

> From: Brad Mugleston <bmug@gw1.com>

>

>Gang,

>

>I will be in Dallas May 29th, arrive 6:11pm, staying at the Doubletree
>on LBJ Freeway. I will be leaving on the 30th at 6:24pm, yes I'll be
>there a whole 24 hours plus (dont ya just love business travel).

>

Hi Brad. I spent practically the entire month of February in Dallas and had the opportunity to meet with and work a number of Dallas hams. Actually met a few I had worked on 30m. Fine group of OMs and YLs, really made the trip a nice one. Flew the XYL down for a couple of weekends away from the close harmonics (who stayed wid their aunt) and she really enjoyed the

sights courtesy of
the recommendations of the local amateurs. Try to get by Tucker Radio. They
really have a fine
store and a very interesting "museum". I discovered when I first arrived that I
had neglected to
bring along the SK with the HF radio gear. I drove over to Tucker and arrived abt
5 minutes
before they closed. I explained my situation to the salesperson who was also an
amateur and he
fixed me up with a cheapie SK and connecting cable real quick. I looked briefly
at the German
Schurr keys (spelling?), nice but too rich for my blood (maybe or DL brothers can
cut a group deal
wid them? whatta u think guys?). Anyway I can't recall the major 2m freq but they
should be easy
to identify. Give a big FB to all our qrp brothers in Dallas. 73/72 de Mike,
KR4IT

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
From: "Paul R. Valko" <prvalko@Oakland.edu>
Subject: [8861] Re: Darwin awards
Message-ID: <Pine.OSF.3.91.960522234720.13602A-100000@saturn.acs.oakland.edu>

On Wed, 22 May 1996, Dan Presley wrote:

> Here's a little story that a friend of mine forwarded to me-This fellow was
> the runner-up for the "Darwin Awards"-an award for the most creative way to
> eliminate yourself from the 'gene pool'

<snip>

I dunno how recently your friend claims to have written this but it
appeared in our club newsletter about two years ago!

73! =paul= wb8zjl

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
From: Stan Skelton <sskelton@cln.etc.bc.ca>
Subject: [8875] Re: Darwin awards
Message-ID: <Pine.3.89.9605230707.A8857-0100000@sparky>

This is an old british sketch about a bricklayer, first heard by me in

the early 70's...funny still
TtFn....Stan T.M. VE7 SKT QRP-L #34

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
From: penn@mailbag.com (Jason F. Penn)
Subject: [8862] Re: Days Inn Dayton South
Message-ID: <199605230411.XAA37252@glacier.binc.net>

Geez, I thought it was just me.

Last year was just fine at Days Inn South. This year it stunk.

Let's see...

Arrive, get keys/cards and totally wrong directions on how to get to the room. Typical stink/musty motel smell, so far so good. My room-mate for Dayton had yet to arrive. When he did, the front desk just gave him a key to my room! I imagine a crook could've gotten keys to any room he/she wanted. I go to sleep. A/C is *loud* but cool. Friday night I notice the used only once soap bars are gone and fresh-in-the-wrapper replacements are present. Saturday morning, the toilet plugs. No, it wasn't me. The guilty party will remain un-named. I call front desk and they say, "Great, thanks, maint. man is on the way. etc." Saturday night I get back to the room. I notice *no* soap this time. I take off my shoes and discover that the carpet is *saturated* with water. Not damp. A flood. Call front desk. Say "it's wet". Maint. dude shows up with wet-vac. Vacs up 10 gallons of water. Carpet *still* wet. Toilet works, though. Call front desk ask for new bed cover 'cuz one wicked up water. Also ask for soap. Hour later another dude shows up with sheets, no soap, no bed cover. He brings back a bed cover. No soap. I go get soap from the front desk myself. Oh yeah, the "safe" had beed kicked-in or some such that it was broke. TV didn't work. Cable from wall was 4 feet too short. Clock radio was piece of junk. Broken/missing ceiling tiles in the bathroom. I very nicely explained all this to the desk clerk at checkout time. "Gee. Sorry." She did knock three bucks off the \$240 motel bill for the broken safe. "Gee. Thanks."

I wish I had Nils' flair for words to make this more entertaining.

Gripe, gripe, gripe...

I guess I feel better.... ;-)

73 de Jason

ObQRP: I bought a 6m Ten-Tec transverter kit whilst at Dayton. Optical shaft encoders (128ppr, Bournes) for \$5. Lots of small parts. An OptiVisor so I can see what I'm doing with the soldering iron. Paul's QRP book. Much more...
--

Jason F. Penn N9RPT | penn@mailbag.com

Whenever I want to find something, it's always in the last place I look.

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
From: JEVERHART@cayman.vf.mmc.com
Subject: [8865] Re: Dayton 97 Building and Design Contest
Message-ID: <960523075722.2503763d@carib.vf.mmc.com>

Gang,

Count me as another interested in this pursuit!

I probably won't make it to Dayton, but hope to contribute a design or two to the effort.

Beyond my personal interest on the design end, I think Doug KI6DS has a super idea that will benefit qrpdom in general. By getting the creative juices going, he is stimulating innovation. Who knows what kind of neat stuff will come of this? Well all likely see something new that will appeal to us!

72/73,

Joe E., N2CX

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
From: Pat Taber <ptaber@logiccraft.com>
Subject: [8866] Re: Dayton 97 Building and Design Contest
Message-ID: <199605231205.IAA101134@nss2.CC.Lehigh.EDU>

>Whoa, guys. I was under the impression that QRP was low power operating.
>Granted, we all like to build stuff, and some like to design, but this here
>contest is going to appeal to a pretty limited number of the group.
>
>Back to QRP please, and not QEX.
>

The way I read the message, the "design contest" runs until November (not Dayton) to produce a kit or kits that will then be the subject of a building contest for Dayton. The upshot is to get QRP-related kits created for QRPers to build and enjoy and which the lucky few may take to Dayton to show off in their moss-covered hotel rooms.

QRP kits are good. We like QRP kits and they are QRP-related. They have to be designed though. A small price, but it must be paid. But the designs are also QRP-related, so there shouldn't be a problem. It's much more on-topic than limericks, decades-old insurance stories, 'you may be an engineer if' and so on.

>>>==>PStJTT

```
=====
Patrick Taber (KC1TD)           Email: ptaber@logiccraft.com
Principal Software Engineer
Logiccraft Information Services
22 Cotton Road
Nashua N.H. 03063
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From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
From: nwqrp@scn.org (SCN User)
Subject: [8881] Re: Looking for AN/GRC-109 Radio
Message-ID: <199605231548.IAA03287@scn.org>

Herb,

I found one at Fair Radio Sales in Ohio. 1-419-223-2196
or you can also try 1-419-227-6573. Mine works fine. The
transmitter and PS came in excellent condx and the RX was in
fine working condx and fair cosmetic condx. Last week there has
been a thread on this set on Boatanchors email list.

--Brian, KV9X

>

>In the early sixties I was a U.S. Army Special Forces Team radio operator. Our
>primary radio was the AN/GRC-109, a 15-watt (almost QRP) "spy" type CW rig,
>crystal controlled, which used end-fed wire with counterpoise and dipole type
>antennas we made ourselves. In the field, we used a hand-crank generator to
>power the transmitter. I would like to have one of these old radios for

>nostalgia sake. Does anyone have any idea where I might find one?

>

>Herb - K06Z

>102200.1642@compuserve.com

>

>

>

>

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i	NorthWest QRP Club	-----
==[scn]==		--0---/\--
) (nwqrp@scn.org	/^\^\/ ^^\ --NW QRP--
/_ _\ 	http://www.scn.org/IP/nwqrp	

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996

From: "John W. Jomp" <johnj119@MO.NET>

Subject: [8900] Re: RS DSP

Message-ID: <31A4DEC8.4EF9@mail.mo.net>

Moore, Randy (William R) wrote:

>

> Can anyone give me the RS part number for the \$40 DSP. My local stores
> never heard of it...

>

> Tnx es 73,

> Randy, KS4L

The part number is 21-543. As I mentined before, store # 01-6616 in
St. Charles, MO has one on the shelf. Have your local store call Keith or
Mark at 314-946-6260.

--... ..-... . -. ----- ..- .. --.-

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996

From: "John W. Jomp" <johnj119@MO.NET>

Subject: [8863] Re: RS DSP for CW

Message-ID: <31A44D1F.7165@mail.mo.net>

owner-qrp-1@Lehigh.EDU wrote:

>

> ORI AC6AN wrote.....

>

> >With all its limitations, I'd say it's a heck of a deal!
>
> And I say AMEN to that. At sell out prices its a good deal
>
> Dave WB7DRU

Gang:

My local RS has a DSP available. Store # 01-6616 Ph# 314-946-6260.

Address: 2174 First Capitol Dr., St. Charles, MO 63301. Manager's name is
Keith. Any RS can have the item tranfered to them. Hope this helps
someone !

73's

John W. Jomp N0UIQ

johnj119@mo.net

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
From: Kevin Muenzler <wb5rue@amsat.org>
Subject: [8876] Re: RS DSP for CW
Message-ID: <01I51GLKPTWC0002VJ@ARWEN.UTHSCSA.EDU>

Dave, WB7DRU wrote:

>
> ORI AC6AN wrote.....
>
> >With all its limitations, I'd say it's a heck of a deal!
>
> And I say AMEN to that. At sell out prices its a good deal
>
> Dave WB7DRU

I'd say that you couldn't buy a better CW filter or
"automatic notch" for what you'll pay for this thing!
It has extremely sharp skirts and even in the "narrow"
mode it doesn't ring like most analog/passive types do
when you get down to the few-hertz-wide modes.

Kevin, WB5RUE
wb5rue@amsat.org

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
From: jgann@mindspring.com (Alvin G. Gann)
Subject: [8880] Re: solar flux
Message-ID: <199605231527.LAA17402@borg.mindspring.com>

>

>Hi gang

>A day or so back I posted that the solar flux was at a low of 67 -
>well as someone said "maybe it's going to be a limbo situation or
>"How low do it go?" It was at a low of 66 yesterday, still at 66
>today and when I checked the SESC bbs, the 27 day outlook shows a
>66 up to about the 30 or 31st of May with a gradual increase to 72
>by the end of first week of June, then a decline to the upper 60's
>again. Hopefully this will be the low point of the cycle and then
>a rapid? climb out to good conditions again. Geomagnetic field is
>expected to be quiet for at least the next 3 days. Good Luck & DX
>Ray

>

>--

>Ray Colbert, W5XE/V31XE, El Paso, Tx

>

Not to be overly pessimistic, but there is always the Maunder Minimum to worry about. In the period of 1645-1715 there were essentially no sunspots at all. Follows a brief paragraph from a FAQ page on the web.

"The Maunder Mininum is a severe reduction in sunspots discovered by E.W.Maunder in 1890 following a careful study of sunspot frequencies. Even though plenty of people were studying the sun after the discovery of the telescope, there were only scxattered reports of a few sunspots actually seen. Astronomers believe that sunspots and sunspot cycles are a rather recent phenomenon on the sun that began at the end of the Maunder Mininum and continues today. The Maunder Minimum also corresponds to a peeriod of extreme winters called the 'Little Ice Age' in Europe. "

-- <http://www2.ari.net/home/odenwald/qadir/q956.html>

Think what that would do to HF. The only thing solar physicists know for sure about the sun is that it is a variable star.

72 -- Jerry W1UI EM74ix 34 17' N 85 28' W QRP-PLUS random loop ant.
W1UI TMPS 1996 Qs=009 States=08 Confirmed=00 DX=01

LA PA NJ WI MN NC KY FL

W PY

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
From: James Bell <jim.bell@canada.cdev.com>
Subject: [8890] RE: Strange occurrence
Message-ID: <199605231758.NAA41672@nss2.CC.Lehigh.EDU>

Vertical antennas like the Butternut have a choke coil accross the feed point to bleed off the static buildup as well as helping to tune the antenna. Try 30 turns #14 2 in. Dia. I presume that the magnetic field from the storm is coupled into the antenna.

I think that it was Hertz who first showed that a charge developed in an electrical circuit that was permitted to discharge across a spark gap would produce a spark across a spark gap in an identical circuit, at a distance ,even though the 2nd circuit was not connected to the first circuit.

spark across gap

```
  \\\//
---0 x 0---
  //\\
```

circuit 1
generates spark

spark across gap

```
  \\\//
----0 x 0----
  //\\
```

identical circuit 2
reproduces spark

My first "Transmitter"(1955) used a spark coil from a Ford truck. Local Hams soon tracked me down and encouraged my talents in more profitable directions.
72 to all

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
From: QLF%mimi@magic.itg.ti.com
Subject: [8891] re: STRANGE OCCURANCE
Message-ID: <9605231826.AA17409@itg.ti.com>

From: Brad Bradfield QLF

Subj: re: STRANGE OCCURANCE

Following is a repost of what I sent directly to Jonathan.

73's

Brad, WB0CGH

-***** ORIGINAL MSG RECEIVED ON 05/23/96 AT 11:47 FOLLOWS *****-

To: kc7fys@aol.com

From: Brad Bradfield QLF

Subj: re: STRANGE OCCURANCE

Good morning Jonathan - - -

What you have experienced is a fairly common occurrence, and vertical antennas seem to be more susceptible than horizontals. They will build up enough electrostatic charge to jump a fairly large gap, even when the storm is still some distance away. Many years ago, when I operated a lot of HF mobile, I was driving along one day when I heard the same thing that you described. My radio was not installed at the time and the coax was coiled up under the passenger's seat in my van. Investigation found that the static was jumping the center pin to shell gap on the PL-259. A couple of comments/suggestions:

1) Install a large resistance (1 Meg or so, 1/2 watt) resistor right at the base of the antenna. This will bleed off this charge and will not affect the impedance of the antenna.

2) If the storm gets close enough that you're worried about it and want to disconnect your antenna, build a shorting plug out of an SO-239 and tie it to your station ground. That gives the antenna a positive path to ground.

When I worked as a broadcast engineer, One station that I was the Chief Engineer for had a 215 foot series fed tower. A storm 30 or more miles away would often cause the static to jump a gap of 1/2 to 1 inch. It was impressive at night because the sparks would be jumping the insulators up and down the guy wires. I once got caught near the top of that tower when a storm was moving in

and I could feel and hear the corona on the top. Needless to say, I made a hasty descent!

Hope this answers your question.

73's

Brad Bradfield, WB0CGH

qlf@msg.ti.com

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
From: "Jerry L. Bartachek" <jbartac@max.state.ia.us>
Subject: [8884] RE: Strange Occurence (Long)
Message-ID: <31A4B8DC.3942@max.state.ia.us>

I read Jonathan's posting with great interest! I have experienced a similar phenomenon. It was kinda stormy, but mostly windy one evening last winter, when I heard a tic - tic, or more properly a Snap - Snap in my shack!!

The 300 ohm ladder line from my 127 foot long inverted ell antenna was hanging down the wall (I use banana plugs and jacks to switch various tuned feed antennas) and a bright blue spark accompanied each snap. The wire in the antenna is plastic coated, but the static buildup on the wire was (pardon me) "relieving itself" to ground. The inv ell is fed about 9 feet up the vertical leg and the bottom portion is grounded, but the rest of the ell is floating above ground.

Bravely, I held the 2 banana plugs further and further apart by their insulators and after enough time elapsed to build up a suitable charge, it would spark up to 1 inch or more between the plugs! I plugged the feeder into the tee tuner just to see what would happen, and of course, it sparked to ground across the series output capacitor. [I can hear comments coming about the 4:1 balun completing the path to ground, but I use NO balun on the output of my tuner, and that is another story.]

When I finally figured that all these static sparks could be DANGEROUS, I decided to plug the 2 banana plugs into opposite ends of a double female SO-239, and leave it grounded for the night. Next day, the wind abated, and I have not seen this happen since. Oddly, the ladder line from my 20 meter vertical ground plane on the roof did NOT do any snapping or sparking. I wonder why?

So was this caused by the wind blowing electrons off my wire? Was it tiny pieces of dust blown across or onto the wire? Was it a charge in the ground waiting to become a lightning strike? I plan to put a small coil or closed stub of 300 ohm line across the feed point in the leg where the inverted ell is fed to keep this from happening again.

72,
Jerry KD0CA

From owner-qrp-l@Lehigh.EDU Thu May 23 22:33:51 1996
From: myers@bigboy73.West.Sun.COM (Dana Myers)
Subject: [8883] Re: Strange Occurrence
Message-ID: <199605231652.JAA08241@sunspot.West.Sun.COM>

> From: KC7FYS@aol.com
> Date: Thu, 23 May 1996 11:23:12 -0400
> Subject: Strange Occurrence
>
> Hello.
> I have a question. Today I was on the air using my dipole, and I heard a
> tic-tic-tic sound in my MFJ 948 antenna tuner, so I popped off the cover to
> see what was happening. I found there was a spark jumping from the center
> shaft of the antenna selector rotary switch to the contact at the bottom of
> the circle. It was every .75 seconds or so--it sounded just like the
> electric fence used to sound on the farm in Iowa. Anyway, I cut the power to
> everything and it was still happening. So I detached the xcvr--no change;
> detached the dipole--no change; and then unplugged the 12V dc lamp power--no
> change.

When you see arcing in an antenna tuner, and it doesn't appear to be coming from anywhere else... it must be coming from the antenna. Removing antenna connectors when there's an electrical storm nearby is quite dangerous...

> Finally I unscrewed the vertical antenna's pl-259 and I got a heart

> stopping shock! Of course, then it started sparking from the center
> conductor to the collar until I attached the center pin to a ground wire I
> had handy. There was a storm brewing and it was starting to rain. Anybody
> that can explain this? I just tossed the cable out the window because I
> didn't know what else to do. What happened?

A potential difference was building up between the earth and the clouds and your vertical was an appealing route from one to the other. Think of that vertical as a lightning rod - when you removed the connector, you became part of the ground circuit for the lightning which is why it is dangerous.

Dana
Dana.Myers@West.Sun.Com

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
From: Brian Dockter <brian@nds.com>
Subject: [8886] Re: Strange Occurrence
Message-ID: <96May23.103041pdt.171760-215+454@rainier.nds.com>

On May 23, 9:52am, Dana Myers wrote:

> Subject: Re: Strange Occurrence
>
> When you see arcing in an antenna tuner, and it doesn't appear to be
> coming from anywhere else... it must be coming from the antenna. Removing
> antenna connectors when there's an electrical storm nearby is quite
> dangerous...
[Edited for brevity]
> A potential difference was building up between the earth and the
> clouds and your vertical was an appealing route from one to the other.
> Think of that vertical as a lightning rod - when you removed the
> connector, you became part of the ground circuit for the lightning
> which is why it is dangerous.

What would be the best way to handle this? Is there something that could be done to prevent it? Is this a good example why you might want to put a spark gap in your transmission line? I'm not very experienced with this stuff and would like to learn what I can so that lightning won't decide to take a detour thru my house. :-)

Brian

--

Brian Dockter (KC7JZL) | Email: brian@nds.com
Sr. Software Engineer | Voice: 206-524-0014
Northwest Digital Systems | FAX: 206-524-3440

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
From: Pat Taber <ptaber@logiccraft.com>
Subject: [8888] Re: Strange Occurrence
Message-ID: <199605231742.NAA99505@nss2.CC.Lehigh.EDU>

>What would be the best way to handle this? Is there something that could
>be done to prevent it? Is this a good example why you might want to put
>a spark gap in your transmission line? I'm not very experienced with
>this stuff and would like to learn what I can so that lightning won't
>decide to take a detour thru my house. :-)
>

This is what the so-called lightning arrestors are for. They come in
gas-discharge models or Cushcraft sells one that's just an air gap. Install
them where the cable enters the house if you're a good doo-bee, or where the
cable passes a handy ground point if you're not. (I admit, I do the latter.)

You really want to drain the charge before you get to any equipment. Even
arcing across an antenna switch will eventually damage the switch.

>>>==>PStJTT

=====
Patrick Taber (KC1TD) Email: ptaber@logiccraft.com
Principal Software Engineer
Logiccraft Information Services
22 Cotton Road
Nashua N.H. 03063

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
From: Jim Stafford-W4QO <w4qo@america.net>
Subject: [8889] Re: Strange Occurrence
Message-ID: <Pine.SOL.3.91.960523135019.10841E-100000@atl1>

On Thu, 23 May 1996 KC7FYS@aol.com wrote:

> change. Finally I unscrewed the vertical antenna's pl-259 and I got a heart

> stopping shock! Of course, then it started sparking from the center
> conductor to the collar until I attached the center pin to a ground wire I
> had handy. There was a storm brewing and it was starting to rain. Anybody
> that can explain this? I just tossed the cable out the window because I
> didn't know what else to do. What happened?

Well, as many of you observed at the 4DIM hospitality suite at Dayton,
when the NoGaQRP group in the person of guest G0FKH put up his kite
antenna, we got BIG sparks all over the place. Here were the conditions:
Antenna was 120 foot wire vertical. Weather was overcast and ~spitting"
rain. No lightning anywhere observed. Wind about 12-15 knots. Sparks
over 1/2 inch were shocking the operators trying to handle the wire and
get it connected to a tuner. It was quite a sight! G0FKH says this does
not happen during most clear days. My suspicion is that it is a charge
collection due to wind movement and the moisture in the air. No storm
ever came but we abandoned the project after Phil, K4PQC and Mark, G0FKH
had gotten their fill of electricity!

Jim Stafford, W4QO	RadioActive Schools(sm) -
11395 West Road	Using amateur radio as
Roswell, GA 30075-2122	a teaching tool in north
770-993-9500	Georgia area schools.
Internet: w4qo@america.net	Packet:W4QO@WA4BRO.#atl.ga.usa.na
QRP-L #267 QRP-QRCI #6515	G-QRP #5588 MiQRP #897 NorCal #1092 NoGaQRP

From owner-qrp-l@Lehigh.EDU Thu May 23 22:33:51 1996
From: okasb@shoe.mtv.gtegsc.com (Bob Okas)
Subject: [8896] Re: Strange Occurrence
Message-ID: <9605231904.AA01240@shoe.mtv.gtegsc.com>

I've had some direct experience with antennas and static myself.
One anecdote I can relate is that of a member of my former ham
club. He had a 50 or so foot tower upon which was mounted a 1/4
wave 2m vertical. It was winter and it was snowing when he heard
the now all-too-familiar snap-snap-snap in his shack. The antenna
was disconnected and an arc was jumping across the PL-259. He grounded
it for a moment and the sparks ceased. Now, for reasons known only
to him, he stuck the damned connector in his mouth! He was a little
dizzy for a while, but recovered from being thrown 6 feet across
the room.

My own experience with static is also during a rather heavy snowfall.
Temp was in the teens, so the snow was 'dry'. I was in the shack

doing some AM BCB DXing and heard a periodic tic-tic-tic in the audio. I was using an indoor antenna on the receiver, but became annoyed at the noise. I had a 75' longwire with a lead in into my bedroom upstairs. When I entered the dark room, I could see the blue flashes that were generating the rfi. Apparently, the lead in, which I normally ground when not in use, had freed itself and sparks were jumping the 1/2 inch gap between it and the ground wire. Separating them more than an inch caused some interesting corona effects (sans sparks).

I deduced that some sort of Van de Graf generator effect must be occurring and the electrons carried by the snowflakes were being deposited on my antenna. This doesn't happen with a normal rainfall, since the water offers a leakage path to ground (punsters take note). I seem to remember an article in Popular Electronics or some such that described how to build a static electricity generator by pouring streams of water through a series of circular 'collectors', so this effect must be well documented in the scientific literature.

BTW, many transmitter designs include a millihenry-sized choke across the antenna connector for the express purpose of bleeding off any static charge that may accumulate on the antenna.

Bob - N3MBY

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
From: "John D. Spittle" <jds@vcn.bc.ca>
Subject: [8903] Re: Strange Occurrence
Message-ID: <Pine.3.89.9605231431.A12624-0100000@opus.vcn.bc.ca>

I had the same problem.

Ben Franklin

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
From: "Jim Kortge, NU8N" <jokortge@tir.com>
Subject: [8904] Re: Strange Occurrence
Message-ID: <1.5.4.16.19960523214256.0a474b16@tir.com>

At 11:23 AM 5/23/96 -0400, you wrote:

>Hello.

>I have a question. Today I was on the air using my dipole, and I heard a
>tic-tic-tic sound in my MFJ 948 antenna tuner, so I popped off the cover to
>see what was happening. I found there was a spark jumping from the center
>shaft of the antenna selector rotary switch to the contact at the bottom of
>the circle. It was every .75 seconds or so--it sounded just like the
>electric fence used to sound on the farm in Iowa. Anyway, I cut the power to
>everything and it was still happening. So I detached the xcvr--no change;
> detached the dipole--no change; and then unplugged the 12V dc lamp power--no
>change. Finally I unscrewed the vertical antenna's pl-259 and I got a heart
>stopping shock! Of course, then it started sparking from the center
>conductor to the collar until I attached the center pin to a ground wire I
>had handy. There was a storm brewing and it was starting to rain. Anybody
>that can explain this?

You bet! You experienced rain static, a build up of charge being carried by rain drops past your antenna. Same thing happens in the winter with snow. A high value of resistor left across the feedline (>10K ohms) will help to continuously discharge the charge that is building.

>I just tossed the cable out the window because I
>didn't know what else to do. What happened?

Not a bad plan with any thunderstorm IMHO.

72 and keep sparking!

Jim

Jim Kortge, NU8N		BMHA, NorCal, QRP-L
jokortge@tir.com	__o	Cascade 17/40 SSB
Fenton, MI	_`\<,	Mizuho 17/40 SSB
...	(*)/(*)	...

From owner-qrp-l@Lehigh.EDU Thu May 23 22:33:51 1996
From: James Bell <jim.bell@canada.cdev.com>
Subject: [8869] RE: Ten-TEC Century Mods
Message-ID: <199605231227.IAA28506@nss2.CC.Lehigh.EDU>

JOKE. You cant make a silk purse out of a sow's ear.
Seriously though the century is not a bad rig.
In the ARGOSY which I presume is similar in design,
to change a band, all you have to do is replace the HF

crystal in the heterodyne oscillator closest to the band that you want and retune the various tuned circuits to the new band.

I once picked up an ARGOSY at a flea market that had been converted to C.B.(OH THE HORROR OF IT ALL).

There is a TEN-TEC reflector at

<http://www.akorn.net/hamradio/tentec/>

Why not ask your question there.

72 JIM VE3DDY

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
Subject: TO IARU FASC

----- Forward Header -----

Future of the Amateur Services Committee ("FASC"):

I read portions of your discussion paper at
<http://www.arl.org/iaru/fasc1out.html#fasc1.11>

I fully support our continued reliance on the World Radio Conference (WRC) forums to support the interests of amateur radio regulations world-wide as opposed to any other special committees convening in the interim and circumventing that process.

Yet, your committee's conclusion (in section 9.12) that the S25.5 (RR2735) requirement, (dealing with the requirements and proficiencies of CW on frequencies below 30mHz for amateur radio communications), should be removed as a treaty obligation, is adamantly opposed by me.

It's akin to removing a treaty obligation over technical abilities for amateur radio service as a solution to problems with the technical assessment (testing), or because it has become too technically difficult for people to enter into the ranks of amateur radio.

CW continues to cross international language boundaries as it has for years, and can continue for years if it stands as a treaty obligation, until such time as another boundary crossing language is shown to be as adept and capable as CW has been and is today.

PLEASE KEEP THE TREATY AS IS, AND ALLOW THE WRC TO DO THEIR JOB. THERE IS NO NEED FOR TWO (2) WRC-TYPE BODIES.

--... / ...--

Mark Gustoff

.-- / --- / --... / -

From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
From: Mark E Gustoff <Mark_E_Gustoff@ccm.ch.intel.com>
Subject: [8899] RE: TO IARU FASC

----- Forwarded with Changes -----
From: dsumner@arrl.org at SMTPGATE
From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
Subject: RE: TO IARU FASC

Text item:

Fellow QRPers:

Response back from my post regarding FASC committee within IARU.

73,
Mark

----- Forward Header -----
Subject: RE: TO IARU FASC
Author: dsumner@arrl.org at SMTPGATE
From owner-qrp-1@Lehigh.EDU Thu May 23 22:33:51 1996
From: Mike Cloud <cloudm@mhsgate.meth-mem.org>
Subject: [8894] RE: Update from AA3MD
Message-ID: <B96AA43101172C16@mhsgate.meth-mem.org>

> From: cjsterl@ix.netcom.com (Craig J. Sterling)
>

>Gotta start thinking about Field Day! What about QRP from the south Lawn
>of the White House! or better yet from the top of the Washington
>Monument!
>

>Caio & 72's

>Craig, AA3MD

>Washington, D.C.

>

Craig, you REALLY DO need to get your medication(s) adjusted!...de Mike, KR4IT